

**IN THE SPECIFICATION:**

The paragraph beginning at page 6, line 4 has been amended as follows:

Figure 6 shows an inventive luminophore plate, for example a storage luminophore plate, that has a substrate 1 of glass or aluminum. In accordance with the invention an auxiliary layer [[3]] 2 is vapor-deposited onto the substrate 1, and a storage luminophore layer 3 is vapor-deposited on said auxiliary layer 2, and the auxiliary layer 2 is rastered such that nubs 5 separated by trenches 4 and formed. Due to the vapor-deposition of the storage luminophore onto the substrate structured by this auxiliary layer 2, individual, needle-shaped crystals of the storage luminophore, referred to as luminophore needles 6, respectively form on the nubs 5, with the nubs functioning as "seeds," the said needles 6 being separated by interstices 7.